

**DLA PIPER RUDNICK GRAY CARY US LLP**  
**INTELLECTUAL PROPERTY DEPARTMENT**  
**One Liberty Place**  
**1650 Market Street, Suite 4900**  
**Philadelphia, PA 19103**

RECEIVED  
CENTRAL FAX CENTER  
SEP 01 2005

**TELEPHONE (215) 656-3300**  
**FACSIMILE (215) 656-2498 OR (215) 656-2499**  
**PROCOMM PLUS (215) 656-2497**

**FACSIMILE TRANSMITTAL**

Attention: Mr. Tony Caputo

Company: USPTO

Facsimile No.: 1-571-273-8300

From: Carol Coney

Date: September 1, 2005

Re: Status on Application

Docket No.: 1105-R-00

Number of Pages (including cover page):

If you do not receive all the pages or experience any difficulty receiving this transmission,  
please call (215) 656-2412

Additional Instructions/Comments:

As discussed on the phone today, here are the copies you requested. Please let me know  
the status of the application.

Thank you.

Direct Dial 215-656-2412 and fax 215-656-2498 or 2499

BEST AVAILABLE COPY

U.S. Serial No. 09/852,378 filed 5/10/01 for Michael Lazdunski et al. entitled POLYPEPTIDE INHIBITING A PROTON-GATED Na<sup>+</sup> CHANNEL, A NUCLEIC ACID CODING FOR SUCH POLYPEPTIDE AND A METHOD OF MANUFACTURING AN ASIC1a CHANNEL BLOCKER.

Dated: May 12, 2003

Docket: 1105-R-00

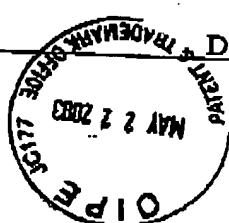
Commissioner for Patents

U.S. Serial No. 09/852,378 filed 5/10/01 for Michael Lazdunski et al. entitled POLYPEPTIDE INHIBITING A PROTON-GATED Na<sup>+</sup> CHANNEL, A NUCLEIC ACID CODING FOR SUCH POLYPEPTIDE AND A METHOD OF MANUFACTURING AN ASIC1a CHANNEL BLOCKER

Dated: May 12, 2003

Docket: 1105-R-00

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450



Sir: Kindly date stamp this card and return it to the undersigned to evidence receipt of the enclosed Certificate of Mailing, Request To Withdraw Holding Of Abandonment, Copy of Communication and postcard dated October 14, 2003. Thank you.

T. Daniel Christenbury

:cc

RECEIVED

MAY 27 2003

IP DEPT.

SEP. 1. 2005 1:42PM

DLA PIPER

RECEIVED  
CENTRAL FAX CENTER

NO. 941 P. 3

SEP 01 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit	: 1196	 <b>35811</b> PATENT TRADEMARK OFFICE
Examiner	: Michael D. Pak	
Serial No.	: 09/852,378	
Filed	: May 10, 2001	
Inventors	: Michael Lazzunski : Pierre Escoubas : Jan De Weille : Sylvie Diochot	
Title	: POLYPEPTIDE INHIBITING A : PROTON-GATED Na <sup>+</sup> CHANNEL, : A NUCLEIC ACID CODING FOR : SUCH POLYPEPTIDE AND A METHOD : OF MANUFACTURING AN ASIC1a : CHANNEL BLOCKER	Confirmation No.: 5427 Docket No.: 1105-R-00 Dated: May 20, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Certificate of Mailing Under 37 CFR 1.8

For

Postcard

Request To Withdraw Holding Of Abandonment

Copy of postcard dated October 14, 2003

Copy of Communication dated October 14, 2003

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date appearing below.

Name of Applicant, Assignee, Applicant's Attorney  
or Registered Representative:

Piper Rudnick LLP  
Customer No. 035811

By: \_\_\_\_\_

*PJ*

Date: \_\_\_\_\_

*20 MAY 2003*

**BEST AVAILABLE COPY**

S. Serial No. 09/825,378 filed 5/10/01 for Michel Lazdunski et al. entitled  
BOLYPEPTIDE INHIBITING A PROTON-GATED Na<sup>+</sup> CHANNEL, A NUCLEIC  
ACID CODING FOR SUCH BOLYPEPTIDE AND A METHOD OF  
MANUFACTURING AN ASIC1a CHANNEL BLOCKER

Dated: October 14, 2002

Docket: 1105-R-00

ox Sequence Listing  
S. Patent and Trademark Office  
O. Box 2327  
rlington, VA 22202



RECEIVED

OCT. 24 2002

SHSL  
IP DEPT.

ir: Kindly date stamp this card and return it to the undersigned to evidence receipt of the enclosed Certificate of Mailing, Transmittal Letter, Copy of Notice to Comply with Requirements for Patent Applications, Substitute Sequence Listing, -Computer readable copy and a printed copy of the Sequence Listing and Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825. Thank you.

.. Daniel Christenbury

gi

SEP. 1, 2005 1:43PM

DLA PIPER

RECEIVED  
CENTRAL FAX CENTER

NO. 941 P. 5

SEP 01 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646  
Examiner : 09/852378 PF  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
              Pierre Escoubas  
              Jan DeWeille  
              Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
        : A PROTON-GATED Na<sup>+</sup> Confirmation No.: 5427  
        : CHANNEL, A NUCLEIC ACID  
        : CODING FOR SUCH POLYPEPTIDE  
        : AND A METHOD OF MANUFACTURING  
        : AN ASIC1a CHANNEL BLOCKER

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Date: October 14, 2002



22469

Box Sequence Listing  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

Certificate of Mailing Under 37 CFR 1.8

For  
Postcard  
Transmittal Letter

Copy of Notice to Comply with Requirements for Patents ...Sequence Disclosures  
Computer readable copy and a printed copy of Substitute Sequence Listing  
Substitute Statement to Support Filing and Submission in accordance  
with 37 C.F.R. §§ 1.821-8.825

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Box Sequence Listing, U. S. Patent and Trademark Office, P. O. Box 2327, Arlington, VA 22202, on the date appearing below.

Name of Applicant, Assignee, Applicant's Attorney  
or Registered Representative:

Schnader Harrison Segal & Lewis  
Customer No. 022469

By: \_\_\_\_\_ *[Signature]*

Date: \_\_\_\_\_ *14 Oct 2002*

910013\_1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646  
Examiner : 09/872378 PP  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
              Pierre Escoubas  
              Jan DeWeille  
              Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
        A PROTON-GATED Na<sup>+</sup>  
        CHANNEL, A NUCLEIC ACID  
        CODING FOR SUCH POLYPEPTIDE  
        AND A METHOD OF MANUFACTURING  
        AN ASIC1a CHANNEL BLOCKER



22469

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Confirmation No.: 5427

Dated: October 14, 2002

TRANSMITTAL LETTER

Box Sequence  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

We acknowledge receipt of the Notice to Comply with Requirements for Patent Applications...dated October 2, 2002, copy enclosed. We submit herewith a computer readable copy and a printed copy of the Substitute Sequence Listing and thereby fulfill the requirements of 37 C.F.R. §§ 1.821-1.825. Also enclosed is a Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825.

Respectfully submitted,



T. Daniel Christenbury  
Reg. No. 31,750

TDC: gj  
(215) 563-1810

RECEIVED  
CENTRAL FAX CENTER

NO. 941 P. 7

SEP 01 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit	: 1196	 35811 PATENT TRADEMARK OFFICE
Examiner	: Michael D. Pak	
Serial No.	: 09/852,378	
Filed	: May 10, 2001	
Inventors	: Michael Lazdunski : Pierre Escoubas : Jan De Weille : Sylvie Diochot	
Title	: POLYPEPTIDE INHIBITING A : PROTON-GATED Na <sup>+</sup> CHANNEL, : A NUCLEIC ACID CODING FOR : SUCH POLYPEPTIDE AND A METHOD : OF MANUFACTURING AN ASIC1 <sup>a</sup> : CHANNEL BLOCKER	Confirmation No.: 5427 Docket No.: 1105-R-00 Dated: May 20, 2003

---

REQUEST TO WITHDRAW HOLDING OF ABANDONMENT

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

In response to the Notice of Abandonment dated May 5, 2003, enclosed are copies of the Communication and post card dated October 14, 2002 and showing receipt by the mailroom on October 16, 2002 which was the response to the Office Action dated October 2, 2002.

We respectfully request that the Notice of Abandonment be rescinded.

If any fees are required, please charge our Deposit Account No. 50-1442.

Respectfully submitted,

  
 T. Daniel Christenbury  
 Reg. No. 31,750  
 Attorney for Applicants

TDC:cc  
 (215) 656-3300

SEP. 1, 2005 1:43PM

DLA PIPER

RECEIVED  
CENTRAL FAX CENTER

NO. 941 P. 8

SEP 01 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646  
Examiner : 09/852 378/P  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
              Pierre Escoubas  
              Jan DeWeille  
              Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
        : A PROTON-GATED Na<sup>+</sup>  
        : CHANNEL, A NUCLEIC ACID  
        : CODING FOR SUCH POLYPEPTIDE  
        : AND A METHOD OF MANUFACTURING  
        : AN ASIC1a CHANNEL BLOCKER

PATENT TRADEMARK OFFICE

Barcode

22469

Docket No.: 1105-R-00

Confirmation No.: 5427

**STATEMENT TO SUPPORT FILING AND SUBMISSION IN  
ACCORDANCE WITH 37 C.F.R. §§1.821-1.825**

**Box Sequence**

U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

In connection with the Substitute Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

1. The submission filed in accordance with 37 C.F.R. § 1.821(g), does not include new matter;
2. The content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same; and
3. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements

910013\_1

were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,



T. Daniel Christenbury  
Reg. No. 31,750  
Attorney for Applicant  
Schnader Harrison Segal & Lewis LLP  
1600 Market Street, Suite 3600  
Philadelphia, PA 19103-7213

Date: October 14, 2002

TDC:gj  
(215) 563-1810

910013\_1

Application No.: 09/852,378**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: Brief description of drawings for figure 1 discloses sequences which is not identified by SEQ ID NO.: .

**Applicant Must Provide:**

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

U.S. Serial No. 09/825,378 filed 5/10/01 for Michel Lazdunski et al. entitled POLYPEPTIDE INHIBITING A PROTON-GATED Na<sup>+</sup> CHANNEL, A NUCLEIC ACID CODING FOR SUCH POLYPEPTIDE AND A METHOD OF MANUFACTURING AN ASIC1a CHANNEL BLOCKER

Dated: October 14, 2002

Docket: 1105-R-00

Box Sequence Listing  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

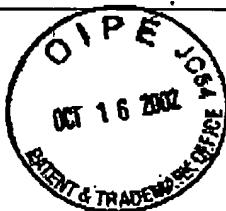
Sir: Kindly date stamp this card and return it to the undersigned to evidence receipt of the enclosed Certificate of Mailing, Transmittal Letter, Copy of Notice to Comply with Requirements for Patent Applications, Substitute Sequence Listing, --Computer readable copy and a printed copy of the Sequence Listing and Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825. Thank you.

U.S. Serial No. 09/825,378 filed 5/10/01 for Michel Lazdunski et al. entitled POLYPEPTIDE INHIBITING A PROTON-GATED Na<sup>+</sup> CHANNEL, A NUCLEIC ACID CODING FOR SUCH POLYPEPTIDE AND A METHOD OF MANUFACTURING AN ASIC1a CHANNEL BLOCKER

Dated: October 14, 2002

Docket: 1105-R-00

Box Sequence Listing  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202



RECEIVED  
OCT. 24 2002

SHSL  
IP DEPT.

Sir: Kindly date stamp this card and return it to the undersigned to evidence receipt of the enclosed Certificate of Mailing, Transmittal Letter, Copy of Notice to Comply with Requirements for Patent Applications, Substitute Sequence Listing, --Computer readable copy and a printed copy of the Sequence Listing and Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825. Thank you.

T. Daniel Christenbury

SEP. 1. 2005 1:45PM

DLA PIPER

RECEIVED  
CENTRAL FAX CENTER NO. 941 P. 12

SEP 01 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646  
Examiner : 09/82378 *PF*  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
              Pierre Escoubas  
              Jan DeWeille  
              Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
        : A PROTON-GATED Na<sup>+</sup> Confirmation No.: 5427  
        : CHANNEL, A NUCLEIC ACID  
        : CODING FOR SUCH POLYPEPTIDE  
        : AND A METHOD OF MANUFACTURING  
        : AN ASIC1a CHANNEL BLOCKER

Docket No.: 1105-R-00

PATENT TRADEMARK OFFICE

Date: October 14, 2002



22469

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Box Sequence Listing  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

Certificate of Mailing Under 37 CFR 1.8

For

Postcard

Transmittal Letter

Copy of Notice to Comply with Requirements for Patents ...Sequence Disclosures  
Computer readable copy and a printed copy of Substitute Sequence Listing  
Substitute Statement to Support Filing and Submission in accordance  
with 37 C.F.R. §§ 1.821-8.825

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Box Sequence Listing, U. S. Patent and Trademark Office, P. O. Box 2327, Arlington, VA 22202, on the date appearing below.

Name of Applicant, Assignee, Applicant's Attorney  
or Registered Representative:

Schnader Harrison Segal & Lewis  
Customer No. 022469

By: \_\_\_\_\_ *BS* \_\_\_\_\_

Date: \_\_\_\_\_ *14 Oct 2002* \_\_\_\_\_

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646  
Examiner : 09/852 378 RF  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
              Pierre Escoubas  
              Jan DeWeille  
              Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
        : A PROTON-GATED Na<sup>+</sup>  
        : CHANNEL, A NUCLEIC ACID  
        : CODING FOR SUCH POLYPEPTIDE  
        : AND A METHOD OF MANUFACTURING  
        : AN ASIC1a CHANNEL BLOCKER



22469

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Confirmation No.: 5427

Dated: October 14, 2002

TRANSMITTAL LETTER

Box Sequence  
U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

We acknowledge receipt of the Notice to Comply with Requirements for Patent Applications...dated October 2, 2002, copy enclosed. We submit herewith a computer readable copy and a printed copy of the Substitute Sequence Listing and thereby fulfill the requirements of 37 C.F.R. §§ 1.821-1.825. Also enclosed is a Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750

TDC:gj  
(215) 563-1810

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Art Unit : 1646  
Examiner : 09/852378 JF  
Serial No. : 09/825,378  
Filed : May 10, 2001  
Inventors : Michel Lazdunski  
: Pierre Escoubas  
: Jan DeWeille  
: Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
: A PROTON-GATED Na<sup>+</sup>  
: CHANNEL, A NUCLEIC ACID  
: CODING FOR SUCH POLYPEPTIDE  
: AND A METHOD OF MANUFACTURING  
: AN ASIC1a CHANNEL BLOCKER



22469

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Confirmation No.: 5427

**STATEMENT TO SUPPORT FILING AND SUBMISSION IN  
ACCORDANCE WITH 37 C.F.R. §§1.821-1.825****Box Sequence**

U. S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

In connection with the Substitute Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

1. The submission filed in accordance with 37 C.F.R. § 1.821(g), does not include new matter;
2. The content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. §1.821(c) and (e), respectively, are the same; and
3. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements

were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,



T. Daniel Christenbury  
Reg. No. 31,750  
Attorney for Applicant  
Schnader Harrison Segal & Lewis LLP  
1600 Market Street, Suite 3600  
Philadelphia, PA 19103-7213

Date: October 14, 2002

TDC:gj  
(215) 563-1810

910013\_1

Application No.: 09/852,378

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: Brief description of drawings for figure 1 discloses sequences which is not identified by SEQ ID NO:..

**Applicant Must Provide:**

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

## SEQUENCE LISTING

<110> LAZDUNSKI, MICHEL  
ESCOUBAS, PIERRE  
DE WEILLE, JAN  
DIOCHOT, SYLVIE

<120> POLYPEPTIDE INHIBITING A PROTON-GATED NA + CHANNEL, A  
NUCLEIC ACID CODING FOR SUCH POLYPEPTIDE AND A METHOD  
OF MANUFACTURING AN ASIC1A CHANNEL BLOCKER

<130> 1105-R-00

<140> 09/852,378  
<141> 2001-05-10

<150> 60/203,309  
<151> 2000-05-10

<160> 10

<170> PatentIn Ver. 2.1

<210> 1  
<211> 40  
<212> PRT  
<213> Psalmopoeus sp.

<400> 1  
Glu Asp Cys Ile Pro Lys Trp Lys Gly Cys Val Asn Arg His Gly Asp  
1 5 10 15  
Cys Cys Glu Gly Leu Glu Cys Trp Lys Arg Arg Arg Ser Phe Glu Val  
20 25 30  
Cys Val Pro Lys Thr Pro Lys Thr  
35 40

<210> 2  
<211> 36  
<212> PRT  
<213> Psalmopoeus sp.

<220>  
<221> MOD RES  
<222> (31)  
<223> Variable amino acid

<400> 2  
Glu Asp Cys Ile Pro Lys Trp Lys Gly Cys Val Asn Arg His Gly Asp  
1 5 10 15  
Cys Cys Glu Gly Leu Glu Cys Trp Lys Arg Arg Arg Ser Phe Xaa Val  
20 25 30  
Cys Val Pro Lys

35

<210> 3  
<211> 16  
<212> PRT  
<213> Psalmopoeus sp.

<400> 3  
Lys Arg Arg Arg Ser Phe Glu Val Cys Val Pro Lys Thr Pro Lys Thr  
1 5 10 15

<210> 4  
<211> 7  
<212> PRT  
<213> Psalmopoeus sp.

<220>  
<221> MOD\_RES  
<222> (1)..(2)  
<223> Variable amino acid

<400> 4  
Xaa Xaa Glu Val Cys Val Pro  
1 5

<210> 5  
<211> 9  
<212> PRT  
<213> Psalmopoeus sp.

<400> 5  
Val Cys Val Pro Lys Thr Pro Lys Thr  
1 5

<210> 6  
<211> 30  
<212> PRT  
<213> Psalmopoeus sp.

<400> 6  
Asp Asp Cys Gly Lys Leu Phe Ser Gly Cys Asp Thr Asn Ala Asp Cys  
1 5 10 15  
Cys Glu Gly Tyr Val Cys Arg Leu Trp Cys Lys Leu Asp Trp  
20 25 30

<210> 7  
<211> 35  
<212> PRT  
<213> Psalmopoeus sp.

<400> 7

Glu Cys Arg Tyr Leu Phe Gly Gly Cys Lys Thr Thr Ser Asp Cys Cys  
1 5 10 15

Lys His Leu Gly Cys Lys Phe Arg Asp Lys Tyr Cys Ala Trp Asp Phe  
20 25 30

Thr Phe Ser  
35

<210> 8  
<211> 41  
<212> PRT  
<213> Psalmopoeus sp.

<400> 8  
Gly Val Asp Lys Ala Gly Cys Arg Tyr Met Phe Gly Gly Cys Ser Val  
1 5 10 15

Asn Asp Asp Cys Cys Pro Arg Leu Gly Cys His Ser Leu Phe Ser Tyr  
20 25 30

Cys Ala Trp Asp Leu Thr Phe Ser Asp  
35 40

<210> 9  
<211> 36  
<212> PRT  
<213> Psalmopoeus sp.

<400> 9  
Asp Cys Val Arg Phe Trp Gly Lys Cys Ser Gln Thr Ser Asp Cys Cys  
1 5 10 15

Pro His Leu Ala Cys Lys Ser Lys Trp Pro Arg Asn Ile Cys Val Trp  
20 25 30

Asp Gly Ser Val  
35

<210> 10  
<211> 29  
<212> PRT  
<213> Psalmopoeus sp.

<400> 10  
Tyr Cys Gln Lys Trp Met Trp Thr Cys Asp Ser Ala Arg Lys Cys Cys  
1 5 10 15

Glu Gly Leu Val Cys Arg Leu Trp Cys Lys Lys Ile Ile  
20 25

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**